

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 007 25636

Approval Date: 08/30/2013
Expiration Date: 02/28/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 1N Rge: 20ECM County: BEAVER

SPOT LOCATION: NE SW SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 350 550

Lease Name: BOWLES Well No: 2H-21-16 Well will be 350 feet from nearest unit or lease boundary.

Operator Name: CHAPARRAL ENERGY LLC Telephone: 4054264481 OTC/OCC Number: 16896 0

CHAPARRAL ENERGY LLC
701 CEDAR LAKE BLVD
OKLAHOMA CITY, OK 73114-7800

JAMES G. & CYNTHIA J. TRENTHAM
RT. #1, BOX 121 A
BALKO OK 73931

Formation(s) (Permit Valid for Listed Formations Only):

Name	Depth	Name	Depth
1 MARMATON	6132	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 607552

Location Exception Orders: 614269

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 11783

Ground Elevation: 2888

Surface Casing: 2000

Depth to base of Treatable Water-Bearing FM: 460

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 50000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: 1B

Liner required for Category: 1B

Pit Location is BED AQUIFER

Pit Location Formation: OGALLALA

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

H. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

HORIZONTAL HOLE 1

Sec 21 Twp 1N Rge 20E County BEAVER

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 1

Feet From: WEST 1/4 Section Line: 550

Depth of Deviation: 6132

Radius of Turn: 715

Direction: 360

Total Length: 4936

Measured Total Depth: 11783

True Vertical Depth: 6847

End Point Location from Lease,

Unit, or Property Line: 1

Notes:

Category	Description
DEEP SURFACE CASING	8/30/2013 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
LOCATION EXCEPTION - 614269	8/30/2013 - G30 - (I.O.) W2 16 & W2 21-1N-20ECM X607552 MRMN, OTHER COMP. INT. NCT 165 FNL/FSL, NCT 500' FWL CHAPARRAL ENERGY, L.L.C. 7/29/13
SPACING - 607552	8/30/2013 - G30 - (640 HOR)(IRR) W2 16 & W2 21-1N-20ECM EST MRMN, OTHERS POE TO BHL NCT 660' FB (COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS; SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

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